Status of All Claims in th Application:

- 1. (Currently Amended) A device stage assembly that moves a device relative to a mounting base having a surface, the device stage assembly comprising:
 - a device stage that retains the device, the device stage being movable relative to the surface of the mounting base;
 - a mover housing that is movable relative to the surface of the mounting base;
 - a support assembly that moves the device stage relative to the mover housing along a Z axis that is perpendicular to the surface of the mounting base, the support assembly including at least four, spaced apart Z device stage movers that are connected to the device stage; and
 - a control system that controls the Z device stage movers to inhibit deformation of the device stage during movement of the device stage by the Z device stage movers.
- 2. (Original) The device stage assembly of claim 1 wherein the control system controls the Z device stage movers to inhibit dynamic deformation of the device stage during movement of the device stage by the Z device stage movers.
- 3. (Original) The device stage assembly of claim 1 wherein the control system controls the Z device stage movers to minimize static deformation of the device stage.
- 4. (Currently Amended) The device stage assembly of claim 1 wherein the control system controls the Z device stage movers to adjust the position of the device stage relative to the mover housing along a the Z axis.

- 5. (Currently Amended) The device stage assembly of claim 1 wherein the control system controls the Z device stage movers to adjust the position of the device stage relative to the mover housing along a the Z axis, about a an X axis, and about a Y axis.
- 6. (Currently Amended) The device stage assembly of claim 5 wherein the support assembly includes an X device stage mover that is controlled by the control system to move the device stage relative to the mover housing along an the X axis.
- 7. (Original) The device stage assembly of claim 5 wherein the support assembly includes a first X device stage mover, a second X device stage mover and a Y device stage mover that are controlled by the control system to move the device stage relative to the mover housing along the X axis, along the Y axis, and about the Z axis.
- 8. (Original) The device stage assembly of claim 1 further comprising a bending sensor that monitors the bending of the device stage.
- 9. (Original) The device stage assembly of claim 8 wherein the control system controls the Z device stage movers to minimize the bending measured by the bending sensor.
- 10. (Original) The device stage assembly of claim 1 including a stage mover assembly connected to the mover housing, the stage mover assembly moving the mover housing with at least one degree of freedom relative to the mounting base.
- 11. (Original) An exposure apparatus including the device stage assembly of claim 1.

- 12. (Original) The exposure apparatus of claim 11 further comprising (i) a stage base that supports the mover housing, and (ii) a base support assembly that moves the stage base relative to the mounting base, the base support assembly including at least four, spaced apart Z base movers that move the stage base relative to the mounting base and wherein the control system controls the Z base movers to inhibit bending of the stage base during movement of the base stage by the Z base movers.
- 13. (Original) The exposure apparatus of claim 12 including a base bending sensor that monitors the bending of the stage base.
- 14. (Original) The exposure apparatus of claim 11 further comprising (i) an apparatus frame that supports a portion of the device stage assembly above the mounting base, and (ii) a frame support assembly that moves the apparatus frame relative to the mounting base, the frame support assembly including at least four, spaced apart Z frame movers that move the apparatus frame relative to the mounting base and wherein the control system controls the Z frame movers to inhibit bending of the apparatus frame during movement of the apparatus frame by the Z frame movers.
- 15. (Original) The exposure apparatus of claim 14 including a frame bending sensor that monitors the bending of the apparatus frame.
- 16. (Original) A device manufactured with the exposure apparatus according to claim 11.
- 17. (Original) A wafer on which an image has been formed by the exposure apparatus of claim 11.
- 18. (Currently Amended) A support assembly that supports and moves a stage relative to a mounting base, the support assembly comprising:
 - a plurality of spaced apart Z stage movers that are connected to the stage;

a sensor coupled to the stage to monitor the bending of the stage; and

- a control system that controls the Z stage movers to move the stage <u>in</u> accordance with an output of the sensor while inhibiting dynamic bending of the stage during movement of the stage by the Z stage movers.
- 19. (Original) The support assembly of claim 18 including at least four spaced apart Z stage movers.
- 20. (Original) The support assembly of claim 18 further comprising a bending sensor that monitors bending of the stage.
- 21. (Original) The support assembly of claim 19 wherein the control system controls the Z stage movers to minimize the bending measured by the bending sensor.
- 22. (Currently Amended) The support assembly of claim 18 wherein the Z stage movers are controlled by the control system to move the stage along a Z axis, about a <u>an</u> X axis, and about a Y axis.
- 23. (Original) The support assembly of claim 22 further comprising a first X stage mover, a second X stage mover and a Y stage mover that are controlled by the control system to move the stage along the X axis, along the Y axis, and about the Z axis.
- 24. (Original) The device stage assembly for mounting a device, the device stage assembly including the support assembly of claim 18, and a stage that retains the device.
- 25. (Original) An exposure apparatus including the device stage assembly of claim 24.

- 26. (Original) A device manufactured with the exposure apparatus according to claim 25.
- 27. (Original) A wafer on which an image has been formed by the exposure apparatus of claim 25.

28-31. (Canceled)

32. (Currently Amended) A method for making a device stage assembly that moves a device relative to a stage base, the method comprising the steps of:

providing a device stage that retains the device, the device stage being movable relative to a surface of the stage base;

providing a mover housing that is movable relative to the surface of the stage base with the device stage;

connecting a support assembly between the device stage and the mover housing, the support assembly including a plurality of spaced apart Z device stage movers that move the device stage relative to the mover housing along a Z axis that is perpendicular to the surface of the stage base; and

connecting a controller with the plurality of spaced apart Z device stage movers, the controller controlling the Z device stage movers to inhibit dynamic bending of the device stage during movement of the device stage by the Z device stage movers.

- 33. (Original) The method of claim 32 wherein the step of connecting a support assembly including providing a support assembly that includes at least four spaced apart Z device stage movers.
- 34. (Currently Amended) The method of claim 32 wherein the control system controls at least one of the Z device stage movers to adjust the position of the device stage relative to the mover housing along a the Z axis, about a an X axis, and about a Y axis.

- 35. (Original) The method of claim 32 further comprising the steps of connecting a bending sensor with the control system, the bending sensor monitoring the bending of the device stage.
- 36. (Original) The method of claim 35 wherein the control system controls at least one of the Z device stage movers to minimize the bending measured by the bending sensor.
- 37. (Currently Amended) The method of claim 32 including the step of connecting a first X device stage mover, a second X device stage mover and a Y device stage mover to the device stage, the X device stage movers and the Y device stage mover being controlled by the control system to move the device stage relative to the mover housing along an X axis, along a Y axis and about a the Z axis.
- 38. (Original) A method for making an exposure apparatus that forms an image on a wafer, the method comprising the steps of:

providing an irradiation apparatus that irradiates the wafer with radiation to form the image on the wafer; and

providing the device stage assembly made by the method of claim 32.

- 39. (Original) A method of making a wafer utilizing the exposure apparatus made by the method of claim 38.
- 40. (Original) A method of making a device including at least the exposure process, wherein the exposure process utilizes the exposure apparatus made by the method of claim 38.

41. (Canceled)

- 42. (Re-presented formerly dependent claim 4) A device stage assembly that moves a device relative to a mounting base, the device stage assembly comprising:
 - a device stage that retains the device;
 - a mover housing;
 - a support assembly that moves the device stage relative to the mover housing, the support assembly including at least four, spaced apart Z device stage movers that are connected to the device stage; and
 - a control system that controls the Z device stage movers to inhibit deformation of the device stage during movement of the device stage by the Z device stage movers, and to adjust the position of the device stage relative to the mover housing along a Z axis.
- 43. (New) The device stage assembly of claim 42 wherein the control system controls the Z device stage movers to adjust the position of the device stage relative to the mover housing about an X axis and about a Y axis.
- 44. (New) The device stage assembly of claim 43 wherein the support assembly includes an X device stage mover that is controlled by the control system to move the device stage relative to the mover housing along the X axis.
- 45. (New) The device stage assembly of claim 43 wherein the support assembly includes a first X device stage mover, a second X device stage mover and a Y device stage mover that are controlled by the control system to move the device stage relative to the mover housing along the X axis, along the Y axis, and about the Z axis.
- 46. (Re-presented formerly dependent claim 10) A device stage assembly that moves a device relative to a mounting base, the device stage assembly comprising:
 - a device stage that retains the device;
 - a mover housing;

a stage mover assembly connected to the mover housing, the stage mover assembly moving the mover housing with at least one degree of freedom relative to the mounting base.

a support assembly that moves the device stage relative to the mover housing, the support assembly including at least four, spaced apart Z device stage movers that are connected to the device stage; and

a control system that controls the Z device stage movers to inhibit deformation of the device stage during movement of the device stage by the Z device stage movers.

47. (Re-presented - formerly dependent claim 12) An exposure apparatus that moves a device relative to a mounting base, the exposure apparatus comprising:

a device stage assembly including (i) a device stage that retains the device, (ii) a mover housing, (iii) a support assembly that moves the device stage relative to the mover housing, the support assembly including at least four, spaced apart Z device stage movers that are connected to the device stage, and (iv) a control system that controls the Z device stage movers to inhibit deformation of the device stage during movement of the device stage by the Z device stage movers;

a stage base that supports the mover housing; and

a base support assembly that moves the stage base relative to the mounting base, the base support assembly including at least four, spaced apart Z base movers that move the stage base relative to the mounting base and wherein the control system controls the Z base movers to inhibit bending of the stage base during movement of the base stage by the Z base movers.

- 48. (New) The exposure apparatus of claim 47 including a base bending sensor that monitors the bending of the stage base.
- 49. (Re-presented formerly dependent claim 14) An exposure apparatus that moves a device relative to a mounting base, the exposure apparatus comprising:

a device stage assembly including (i) a device stage that retains the device, (ii) a mover housing, (iii) a support assembly that moves the device stage relative to the mover housing, the support assembly including at least four, spaced apart Z device stage movers that are connected to the device stage, and (iv) a control system that controls the Z device stage movers to inhibit deformation of the device stage during movement of the device stage by the Z device stage movers;

an apparatus frame that supports a portion of the device stage assembly above the mounting base; and

a frame support assembly that moves the apparatus frame relative to the mounting base, the frame support assembly including at least four, spaced apart Z frame movers that move the apparatus frame relative to the mounting base and wherein the control system controls the Z frame movers to inhibit bending of the apparatus frame during movement of the apparatus frame by the Z frame movers.

- 50. (New) The exposure apparatus of claim 49 including a frame bending sensor that monitors the bending of the apparatus frame.
- 51. (Re-presented formerly dependent claim 22) A support assembly that supports and moves a stage relative to a mounting base, the support assembly comprising:

a plurality of spaced apart Z stage movers that are connected to the stage; and

a control system that controls the Z stage movers to move the stage along a Z axis, about a X axis, and about a Y axis while inhibiting dynamic bending of the stage during movement of the stage by the Z stage movers.

52. (New) The support assembly of claim 51 further comprising a first X stage mover, a second X stage mover and a Y stage mover that are controlled by the control system to move the stage along the X axis, along the Y axis, and about the Z axis.

53. (Re-presented - formerly dependent claim 28) A base stage assembly comprising:

a stage base;

a stage;

a mounting base; and

a support assembly that is connected to the stage base, the support assembly supporting and moving the stage relative to the mounting base, the support assembly including (i) a plurality of spaced apart Z stage movers that are connected to the stage; and (ii) a control system that controls the Z stage movers to move the stage while inhibiting dynamic bending of the stage during movement of the stage by the Z stage movers.

- 54. (New) The base stage assembly of claim 53 including a base bending sensor that monitors the bending of the stage base.
- 55. (Re-presented formerly dependent claim 30) A frame stage assembly comprising:

an apparatus frame;

a stage;

a mounting base; and

a support assembly that is connected to the apparatus frame, the support assembly supporting and moving the stage relative to the mounting base, the support assembly including (i) a plurality of spaced apart Z stage movers that are connected to the stage; and (ii) a control system that controls the Z stage movers to move the stage while inhibiting dynamic bending of the stage during movement of the stage by the Z stage movers.

56. (New) The frame stage assembly of claim 55 further comprising a frame bending sensor that monitors the bending of the apparatus frame.